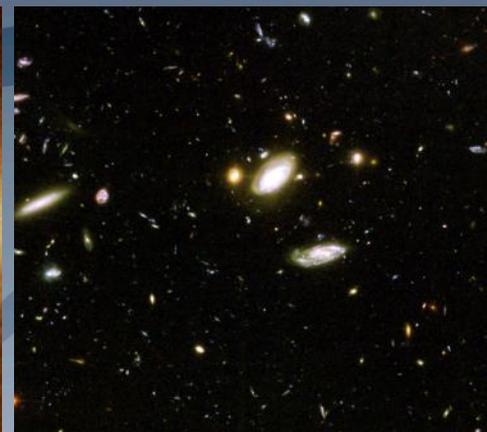


Astrophysics



LUVOIR STDT First Telecon Meeting

April 5, 2016

Mario R. Perez
Erin C. Smith

LUVOIR Program Scientists

Astrophysics Division

Science Mission Directorate

mario.perez@nasa.gov

STDT Surroundings



Audiences

Community – **Media** –
Universities – Students –
Industry – Governments
World

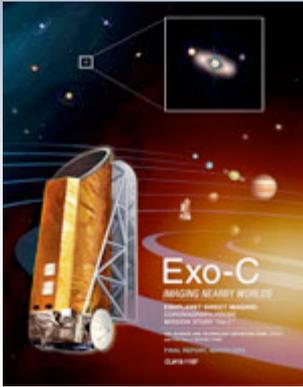
Stakeholders

U.S. Congress – **NASA** –
Foreign Space Agencies –
Science & Space Community

Customers

**National Academy of
Sciences (NRC) – 2020
Decadal Committee**

Lessons Learned from Prior STDTs



<http://exep.jpl.nasa.gov/stdt/>



<http://wfirst.gsfc.nasa.gov/>



LUVOIR Science at the time of Launch



- This is particularly important for Cosmic Origins science. It should be relevant at the time of the LUVOIR launch (~2030s), not now.

Cosmic Origins Astrophysics in the Post JWST and WFIRST Era



Jason Kalirai



STDT and Technologies



- STDT will define and provide specific information on technology gaps and technology needs to implement LUVVOIR.
- Industry involvement; Meetings and/or workshops with Industry, RFIs, conduct joint studies, etc.
- Export Control information,
 - **The International Traffic in Arms Regulations** ITAR (NASA centers, Universities, National Laboratories).
 - **Export Administration Regulations** (EAR, Dept. of Commerce, Commerce Control List – CCL – Cat.6 and 9 Optics, Cameras, Lasers and Radar - Propulsion Systems, Space Vehicles and Related Equipment)

ITAR DEFINITIONS - Export

♦ Important ITAR Definitions

- **Export (cont'd)** - disclosing (including oral or visual disclosure) or transferring in the United States any “**defense article**” to an embassy, any agency or subdivision of a foreign government (e.g., diplomatic missions), or disclosing (including oral or visual disclosure) or transferring “**technical data**” to a “**foreign person**”, whether in the U.S. or abroad; or performing a “**defense service**” on behalf of, or for the benefit of, a “**foreign person**”, whether in the U.S. or abroad.



ITAR DEFINITIONS - U.S. Person

♦ Important ITAR Definitions

- **U.S. Person** - a natural person who is a lawful permanent resident as defined in 8 U.S.C. 1101(a)(20) or who is a protected individual as defined by 8 U.S.C. 1324b(a)(3). It also means any corporation, business association, partnership, society, trust, or any other entity, organization or group that is incorporated to do business in the U.S. It also includes any governmental (federal, state or local), entity.



ITAR DEFINITIONS - Technical Data

♦ Important ITAR Definitions

- **Technical Data (cont'd)** - **does not include information** concerning general scientific, mathematical or engineering principles commonly taught in schools, colleges and universities or information in the “**public domain**”. It also **does not include basic marketing information** on function or purpose or general system descriptions of “**defense articles**”.



Cosmic Origins (COR) Program Office



- Program Office functions as part of HQ, focus on implementation
 - Help make STDT job easier
 - Observe how the STDT is working, help get unstuck if needed
 - Facilitate interactions with other studies and other program offices
 - Facilitate interactions with technology developers and industry
 - Facilitate team interactions with Aerospace Corp. and with travel/meeting/admin services
- Two *ex officio* members of LUVUOIR STDT from Program Office
 - **Susan Neff**, Chief Scientist, COR Program (galaxy evolution, active galaxies, feedback)
 - **Deborah Padgett**, Deputy Chief Scientist, COR Program (disks, young stars, star formation)
- Facilitate interactions with the larger astrophysics community
 - Cosmic Origins Program Analysis Group (COPAG), Chair: Paul Scowen, ASU
 - Exoplanet Program Analysis Group (ExoPAG), Chair: Alan Boss, Carnegie
 - Science Interest Groups (SIGs) and Science Analysis Groups (SAGs)
 - Community meetings (e.g. AAS sessions)
 - Community notifications and news, by website, email and newsletters

<http://cor.gsfc.nasa.gov/cor.php>

Astrophysics



LUVOIR Kick Off Telecon

April 5, 2016